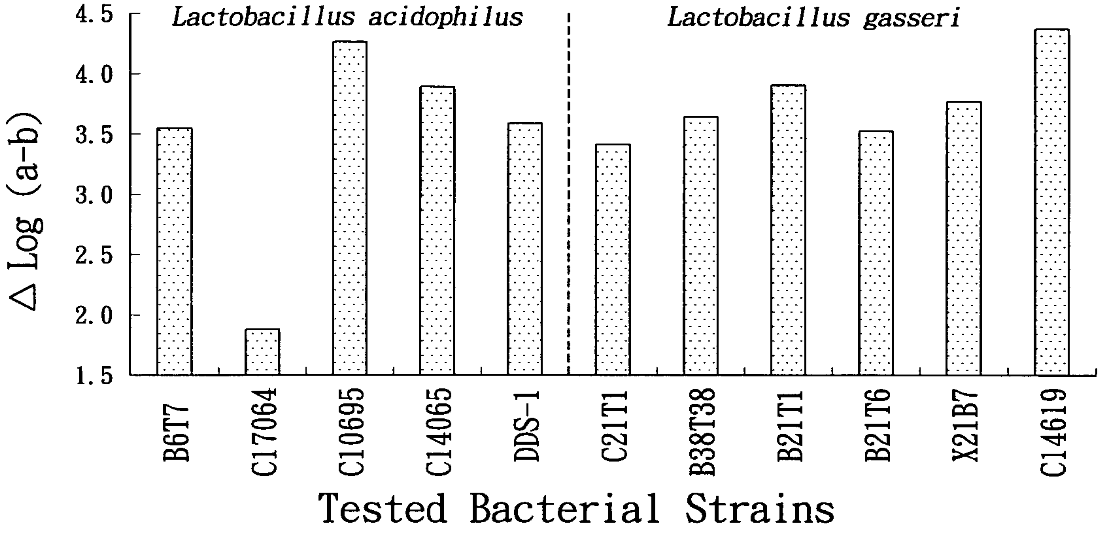

4.5
4.0
3.5
3.0
2.5
2.0
1.5
Δ Log (a-b)
Lactobacillus acidophilus
Lactobacillus gasseri
B6T7
C17064
C10695
C14065
DDS-1
C21T1
B38T38
B21T1
B21T6
X21B7
C14619
Tested Bacterial Strains

FIG. 1

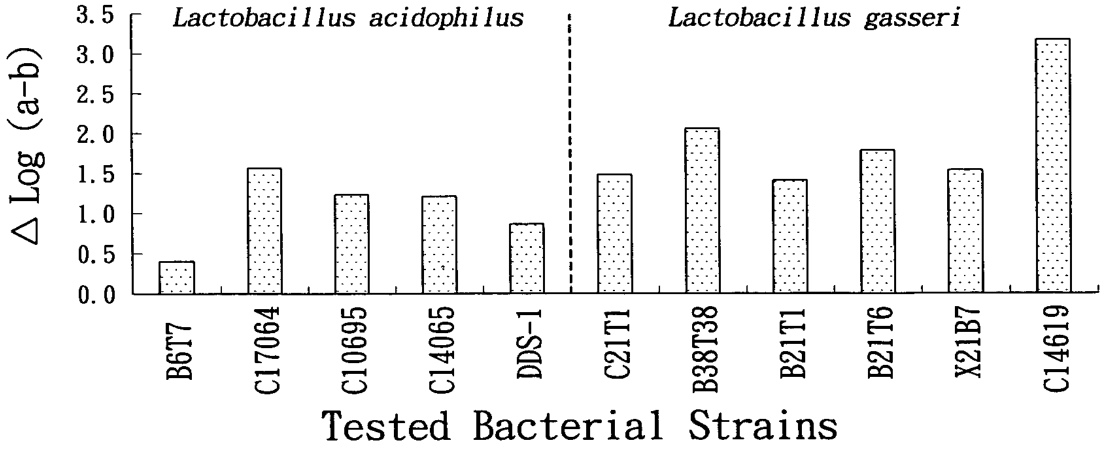
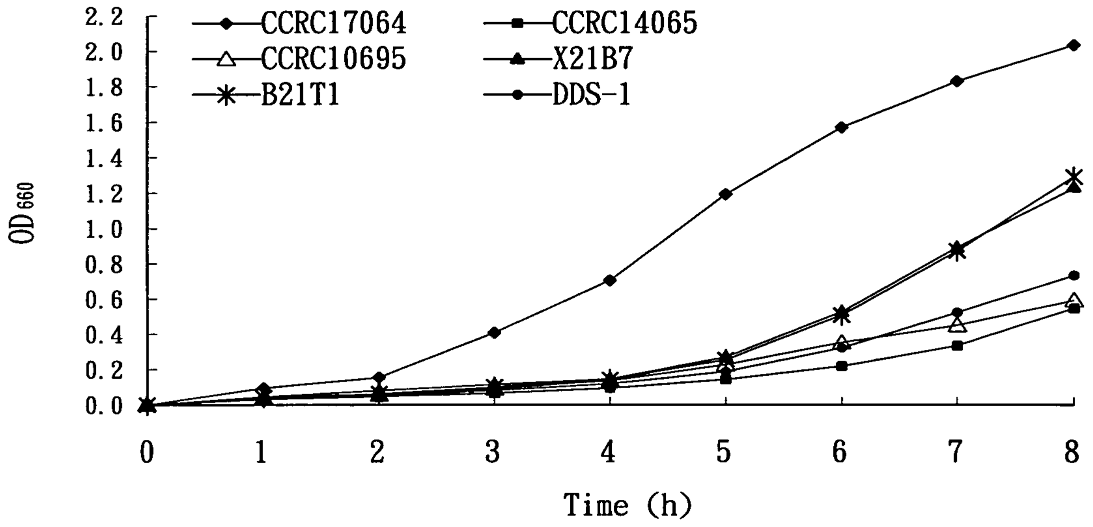
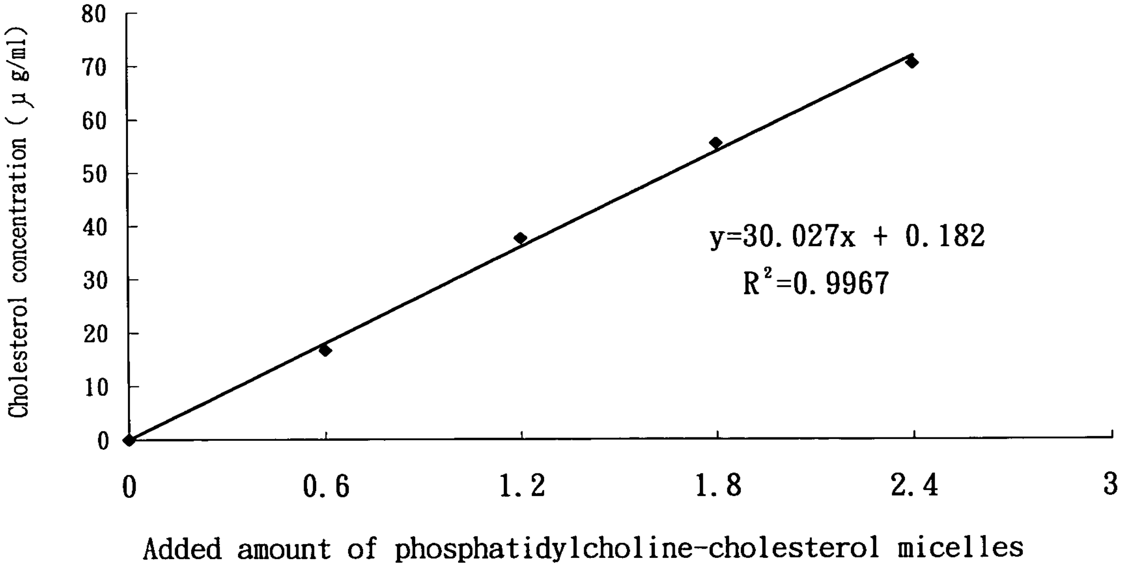

3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Δ Log (a-b)
Lactobacillus acidophilus
Lactobacillus gasseri
B6T7
C17064
C10695
C14065
DDS-1
C21T1
B38T38
B21T1
B21T6
X21B7
C14619
Tested Bacterial Strains

FIG. 2



CCRC17064
CCRC14065
CCRC10695
X21B7
B21T1
DDS-1
OD660
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
1
2
3
4
5
6
7
8
Time (h)

FIG. 3



Cholesterol concentration (μg/ml)
80
70
60
50
40
30
20
10
0
y=30.027x + 0.182
R²=0.9967
0
0.6
1.2
1.8
2.4
3
Added amount of phosphatidylcholine-cholesterol micelles

FIG. 4

CAGGACGAAC GCTGGCGGCG TGCCTAATAC ATGCAAGTCG AGCGAGCTTG
CCTAGATGAA TTTGGTGCTT GCACCAAATG AAACTAGATA CAAGCGAGCG
GCGGACGGGT GAGTAACACG TGGGTAACCT GCCCAAGAGA CTGGGATAAC
ACCTGGAAAC AGATGCTAAT ACCGGATAAC AACACTAGAC GCATGTCTAG
AGTTTAAAAG ATGGTTCTGC TATCACTCTT GGATGGACCT GCGGTGCATT
AGCTAGTTGG TAAGGTAACG GCTTACCAAG GCAATGATGC ATAGCCGAGT
TGAGAGACTG ATCGGCCACA TTGGGACTGA GACACGGCCC AAACTCCTAC
GGGAGGCAGC AGTAGGGAAT CTTCCACAAT GGACGCAAGT CTGATGGAGC
AACGCCGCGT GAGTGAAGAA GGGTTTCGGC TCGTAAAGCT CTGTTGGTAG
TGAAGAAAGA TAGAGGTAGT AACTGGCCTT TATTTGACGG TAATTACTTA

FIG. 5

CAGGACGAAC GCTGGCGGCG TGCCTAATAC ATGCAAGTCG AGCGAGCTTG
CCTAGATGAA TTTGGTGCTT GCACCAAATG AAACTAGATA CAAGCGAGCG
GCGGACGGGT GAGTAACACG TGGGTAACCT GCCCAAGAGA CTGGGATAAC
ACCTGGAAAC AGATGCTAAT ACCGGATAAC AACACTAGAC GCATGTCTAG
AGTTTAAAAG ATGGTTCTGC TATCACTCTT GGATGGACCT GCGGTGCATT
AGCTAGTTGG TAAGGTAACG GCTTACCAAG GCAATGATGC ATAGCCGAGT
TGAGAGACTG ATCGGCCACA TTGGGACTGA GACACGGCCC AAACTCCTAC
GGGAGGCAGC AGTAGGGAAT CTTCCACAAT GGACGCAAGT CTGATGGAGC
AACGCCGCGT GAGTGAAGAA GGGTTTCGGC TCGTAAAGCT CTGTTGGTAG
TGAAGAAAGA TAGAGGTAGT AACTGGCCTT TATTTGACGG TAATTACTTA

FIG. 6

CAGGACGAAC GCTGGCGGCG TGCCTAATAC ATGCAAGTCG AGCGAGCTTG
CCTAGATGAA TTTGGTGCTT GCACCAAATG AAACTAGATA CAAGCGAGCG
GCGGACGGGT GAGTAACACG TGGGTAACCT GCCCAAGAGA CTGGGATAAC
ACCTGGAAAC AGATGCTAAT ACCGGATAAC AACACTAGAC GCATGTCTAG
AGTTTAAAAG ATGGTTCTGC TATCACTCTT GGATGGACCT GCGGTGCATT
AGCTAGTTGG TAAGGTAACG GCTTACCAAG GCAATGATGC ATAGCCGAGT
TGAGAGACTG ATCGGCCACA TTGGGACTGA GACACGGCCC AAACTCCTAC
GGGAGGCAGC AGTAGGGAAT CTTCCACAAT GGACGCAAGT CTGATGGAGC
AACGCCGCGT GAGTGAAGAA GGGTTTCGGC TCGTAAAGCT CTGTTGGTAG
TGAAGAAAGA TAGAGGTAGT AACTGGCCTT TATTTGACGG TAATTACTTA

FIG. 7

CAGGACGAAC GCTGGCGGCG TGCCTAATAC ATGCAAGTCG AGCGAGCTTG
CCTAGATGAT TTTGGTGCTT GCACTAAATG AAACTAGATA CAAGCGAGCG
GCGGACGGGT GAGTAACACG TGGGTAACCT GCCCAAGAGA CTGGGATAAC
ACCTGGAAAC AGATGCTAAT ACCGGATAAC AACACTAGAC GCATGTCTAG
AGTTTGAAAG ATGGTTCTGC TATCACTCTT GGATGGACCT GCGGTGCATT
AGCTAGTTGG TAAGGTAACG GCTTACCAAG GCAATGATGC ATAGCCGAGT
TGAGAGACTG ATCGGCCACA TTGGGACTGA GACACGGCCC AAACTCCTAC
GGGAGGCAGC AGTAGGGAAT CTTCCACAAT GGACGAAAGT CTGATGGAGC
AACGCCGCGT GAGTGAAGAA GGGTTTCGGC TCGTAAAGCT CTGTTGGTAG
TGAAGAAAGA TAGAGGTAGT AACTGGCCTT TATTTGACGG TAATTACTTA

FIG. 8

CAGGACGAAC GCTGGCGGCG TGCCTAATAC ATGCAAGTCG AGCGAGCTTG
CCTAGATGAA TTTGGTGCTT GCACCAAATG AAACTAGATA CAAGCGAGCG
GCGGACGGGT GAGTAACACG TGGGTAACCT GCCCAAGAGA CTGGGATAAC
ACCTGGAAAC AGATGCTAAT ACCGGATAAC AACACTAGAC GCATGTCTAG
AGTTTAAAAG ATGGTTCTGC TATCACTCTT GGATGGACCT GCGGTGCATT
AGCTAGTTGG TAAGGTAACG GCTTACCAAG GCAATGATGC ATAGCCGAGT
TGAGAGACTG ATCGGCCACA TTGGGACTGA GACACGGCCC AAACTCCTAC
GGGAGGCAGC AGTAGGGAAT CTTCCACAAT GGACGCAAGT CTGATGGAGC
AACGCCGCGT GAGTGAAGAA GGGTTTCGGC TCGTAAAGCT CTGTTGGTAG
TGAAGAAAGA TAGAGGTAGT AACTGGCCTT TATTTGACGG TAATTACTTA

FIG. 9

```
B6T7 CA - GACGAAC GCTGGCGGCG TGCCTAATAC ATGCAAGTCG AGCG - AC - CT
La   CAGGACGAAC GCTGGCGGCG TGCCTAATAC ATGCAAGTCG AGCG - AG - CT
Lp   CAGGACGAAC GCTGGCGGCG TGCCTAATAC ATGCAAGTCG AACGAACTCT
     - - * - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - * - - * - * * - -
B6T7 - GAACCAACA GAT - - TCACT TCGGTGA - TG ACGTTGGGAA CGCGAGCGGC
La   - GAACCAACA GAT - - TCACT TCGGTGA - TG ACGTTGGGAA CGCGAGCGGC
Lp   GGTATTGATT GGTGCTTGCA TC - ATGATTT ACATT - TG - A - GTGAGTGGC
     * - * - * * * - * * - * - * * - * * - * - - * * - - - * - * - - * - - * * - * - * - * - - - * - - -
B6T7 GGATGGGTGA GTAACACGTG GGGAACCTGC CCCAT - AGTC TGGGATACCA
La   GGATGGGTGA GTAACACGTG GGGAACCTGC CCCAT - AGTC TGGGATACCA
Lp   GAACTGGTGA GTAACACGTG GGAAACCTG - CCCAGAAGCG GGGGATAACA
     - * - * * - - - - - - - - - - - - - - - - - * - - - - - - * - - - - * * - - * * * - - - - - - * - -
B6T7 CTTGGAAACA GGTGCAATA CCGGATAAGA AAGCAGATGC CATGATCAGC
La   CTTGGAAACA GGTGCAATA CCGGATAAGA AAGCAGATGC CATGATCAGC
Lp   CCTGGAAACA GATGCTAATA CCGCATAACA ACTTGGACCG CATGGTCCGA
     - * - - - - - - - - - * - - - - - - - - - - - * - - - - * - - * * * * - - * - - - - - - * - - * - *
B6T7 TTATAAAAGG CGGCGTAAGC TGTCGCTATG GGATGGCCCC GCGGTGCATT
La   TTATAAAAGG CGGCGTAAGC TGTCGCTATG GGATGGCCCC GCGGTGCATT
Lp   G - TTGAAAGA TGGCTTCGGC TATCACTTTT GGATGGTCCC GCGGCGTATT
     * * * - * - - - - * - * - - - - - - - - - * - - - - - - - - - - - * - - - - * - - * * * * - - * - -
B6T7 AGCTAGTTGG TAGGGTAACG GCCTACCAAG GCAATGATGC ATAGCCGAGT
La   AGCTAGTTGG TAGGGTAACG GCCTACCAAG GCAATGATGC ATAGCCGAG -
Lp   AGCTAGATGC TGGGGTAACG GCTCACCATG GCAATGATAC GTAGCCGA - C
     - - - - * - - * - * * * * - * - - - - * * - - - * - * * - - - * - - * - - * - * - - - - - - * - - -
B6T7 TTGAGAGACT GATCCGGCCA CATTGGGACT GAGACACGGC CCAAACTCCT
La   TTGAGAGACT GAT - CGGCCA CATTGGGACT GAGACACGGC CCAAACTCCT
Lp   CTGAGAGGGT AAT - CGGCCA CATTGGGACT GAGACACGGC CCAAACTCCT
     * - - - - - - * * - * - - * - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
B6T7 ACGGGAGGGC AAGCAGTAGG GAATCCTCCA CAATGGACCA AAGTCCTGAT
La   ACGGGA - GGC - AGCAGTAGG GAATCTTCCA CAATGGACGA AAGT - CTGAT
Lp   ACGGGA - GGC - AGCAGTAGG GAATCTTCCA CAATGGACGA AAGT - CTGAT
     - - - - - - * - - - * - - - - - - - - - - - - - - * - - - - - - - - - - - - * - - - - - * - - - - -
B6T7 GGAGCAACGC CCCGTGAGTT GAAGAA - GTT TTCGGATCGT AAAGCCCTGT
La   GGAGCAACGC CGCGTGAG - T GAAGAAGGTT TTCGGATCGT AAAGCTCTGT
Lp   GGAGCAACGC CGCGTGAG - T GAAGAAGGGT TTCGGCTCGT AAAACTCTGT
     - - - - - - - - - - - * - - - - - - * - - - - - - - * - * - - - - - - * - - - - - - - * - * - - - -
B6T7 TGTTGGTGAA GAAGGATA - G AGGTAAGAAC TG - GCCTTTA TTTGACCGTA
La   TGTTGGTGAA GAAGGATA - G AGGTAGTAAC TG - GCCTTTA TTTGACGGTA
Lp   TGTTAAAGAA GAA - CATATC TGAGAGTAAC TGTTCAGGTA - TTGACGGTA
     - - - - * * * - - - - - - * * - - - * * * - * * - * * - - - - - - * * - * * * - - * - - - - - * - - -
```

FIG. 10